Attorney Docket No. 56162.000338
Application No. 10/050,128

#2 7.22.02

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:)		
Michael J. GRAZIANO, et al.)	Group Art Unit: 2661	Dron-
Application No.: 10/050,128)	Examiner: Unknown	JUL 1 9 0
Filed: January 18, 2002)		2002
For: METHOD AND SYSTEM FOR V CANCELLER FILTER LENGTH		- · -	

INFORMATION DISCLOSURE STATEMENT

MAY 3 1 2002

The Director of the United States Patents and Commissioner for Patents Washington, D.C. 20231

Technology Center 2600

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully submit the following documents for the Examiner's consideration. A copy of Form PTO-1449 and copies of each of the listed documents are enclosed for the Examiner's convenience.

Applicants respectfully request that the Examiner considers the enclosed references and that the Examiner indicates that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per MPEP 609.

This Information Disclosure Statement is believed to be submitted before the mailing of a first Office Action. Accordingly, no fees are due. However, if any fees are



incurred upon the filing of this Information Disclosure Statement, the Commissioner is hereby authorized to charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted, HUNTON & WILLIAMS

Date: <u>Muly 30</u>, 2002

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Substitute for form 1449A/PTO

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	Complete if Knowechnology Cente
Application Number	10/050,128
Filing Date	January 18, 2002
First Named Inventor	Michael J. GRAZIANO, et al.
Group Art Unit	2661
Examiner Name	Unassigned
Attorney Docket Number	56162.000338

		II C Patent	t Document				
Examiner Initials *	Cite No.1	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where R Passages or Relevant Figures Appear	televant
	U1	5,363,321		Dao Trong et al.	11/08/94		
	U2	5,524,089		Takano	06/04/96		
	U3	5,570,310		Smith	10/29/96		
	U4	5,600,581		Dworkin et al.	02/04/97		
	U5	5,604,691		Dworkin et al.	02/18/97		
	U6	5,642,305		Pan et al.	06/24/97		
	U7	5,703,801		Pan et al	12/30/97		
.,	U8	5,909,384		Tal et al.	06/01/99		
	U9	5,940,312		Hansen	08/17/99		
	U10	5,941,939		Pan et al.	08/24/99		
	U11						
	U12						
Examiner Initials *	Cite No. ¹ P1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. Haykin, Simon, Communication Systems 4 th Edition, Wiley, 2001, page 436				T 2	
	P2	Brigham, E. Oran, The Fast Fourier Transform and its Applications, Prentice Hall, 1988, pgs 191-193					
	P3	Embree,	Embree, Paul M. and Kimbel, Bruce, C Language Algorithms for Digital Signal Processing, Prentice Hall, 1991, pgs 255-256 and 266 and 267				
	P4		Haykin, Simon, <i>Adaptive Filter Theory 3rd Edition</i> , Prentice Hall, 1996, pgs 393-404				
	P5	Proa	Proakis, John G., Manolakis, Dimitris G., " <i>Digital Signal Processing: Principals, Algorithms and Applications 3rd Edition</i> , Prentice Hall, 1996, pgs 23-28				
	P6	ITU Sta	ITU Standard G.991.2, "Single Pair High Speed Digital Subscriber Line (SHDSL) Transceivers", April 2001, pgs 1-191, Irvine, California				
	P7	ITU Sta	ITU Standard G.994.1, "Handshake Procedures for Digital Subscriber Line (DSL) Transceivers", June 1999, pgs 1-46, Geneva				
	P8	ANSI Sta	ANSI Standard HDSL2, "High Bit Rate Digital Subscriber Line2 nd Generation (HDSL2)", February 21-25, 2000, pgs 1-94, Maui, HI				

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.